

### **ABSTRACT OF THE DISCLOSURE**

A wide band radio transmission method, apparatus and computer readable medium for transmitting bit streams of a video-related application through a radio channel are provided. The wide band radio transmission method comprises the steps of: (a) obtaining identification information on a video-related application which is executed in a user layer, from the user layer; (b) obtaining information on at least one of channel characteristics and a decoding state from a physical layer; and (c) deciding on a quality of service (QoS) level with reference to the identification information and the information on at least one of the channel characteristics and the decoding state from the physical layer. The wide band radio transmission method can efficiently support video-related applications such as applications of the H.324M standard, the H.323 standard, the H.320 standard, and the MPEG-4 standard. Also, negotiations on video services having different quality of service (QoS) levels can be performed, and then, optimum video services considering channel characteristics can be provided.

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